



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

No Rush

D2348
Job Sheet 187606



Part No: D2348

Job Qty: 46 pcs

Part Name: Wearplate (Key Way)



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 12/10/18

Job Tracking No:

Due Date: 12/12/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: DWG REV C IPP Rev A Removed from 9 Digit 05-12-05 JLM IPP Rev:B Now on Waterjet 06-07-03 JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Waterjet - Flow - 1	46 pcs		12/12/18	0.01	1.71	Waterjet - Flow		<i>SC 18/12/10</i>
120	QC 8	46 pcs		12/12/18	0.00	0.00	QC 8 - 12		
							QC 8 - 14		
							QC 8 - 16		
							QC 8 - 17		
							QC 8 - 20		
							QC 8 - 25		
							QC 8 - 3		
							QC 8 - 32		
							QC 8 - 33		
							QC 8 - 35		DAS
							QC 8 - 38		38
							QC 8 - 39		9-89
							QC 8 - 4		
							QC 8 - 44		
							QC 8 - 45		
							QC 8 - 49		
							QC 8 - 58		
							QC 8 - 8		
							QC 8 - 9		
							QC 8 - 68		
							QC 8 - 67		
150	Outsource	46 pcs		12/12/18			ATG001-VC	5	<i>SC</i> DEC 11 2018
160	Packaging 2-1 - Receive - B4B	46 pcs		12/12/18	0.00	0.00	Packaging 2 - 1		
							Packaging 2 - 2		
							Packaging 2 - 3		
							Packaging 2 - 5		<i>DEC 18 2018</i>
							Packaging 2 - 4		
							Packaging 2 - 6		
							Packaging 2 - 7		
							Packaging 2 - 8		



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S138279



Part: D2348

Job No: 187606

Serial No/Batch: S138279

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 12/18/18

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date : _____	Sequence #: _____	QTY Affected : _____		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

					Packaging 2 - 9					
					Packaging 2 - 10					
					Packaging 2 - 11					
					Packaging 2 - 12					
					Packaging 2 - 13					
					Packaging 2 - 14					
					Packaging 2 - 15					
					Packaging 2 - 16					
					Packaging 2 - 17					
					Packaging 2 - 18					
					Packaging 2 - 19					
					Packaging 2 - 20					
					Packaging 2 - 21					
					Packaging 2 - 22					
					Packaging 2 - 23					
					Packaging 2 - 24					
					Packaging 2 - 25					
					Packaging 2 - 26					
					Packaging 2 - 27					
					Packaging 2 - 28					
					Packaging 2 - 29					
					Packaging 2 - 30					
					Packaging 2 - 31					
					Packaging 2 - 32					
					Packaging 2 - 33					
					Packaging 2 - 34					
					Packaging 2 - 35					
					170 QC 5	46 pcs	12/12/18	0.00 0.00	QC 5 - 10	
									QC 5 - 12	
									QC 5 - 16	
									QC 5 - 17	
									QC 5 - 18	
									QC 5 - 19	
									QC 5 - 22	
									QC 5 - 24	
QC 5 - 3	DAS									
QC 5 - 38	38									
QC 5 - 42	9-89									
QC 5 - 43										
QC 5 - 49										
QC 5 - 51										
QC 5 - 58										
QC 5 - 68										
QC 5 - 9										
QC 5 - 50										
QC 5 - 30										
180 Small Fab - 2 - B4B	46 pcs	12/12/18	0.00 1.25	Small Fab - 1 - B4B						
				Small Fab - 2 - B4B						
				Small Fab - 3 - B4B					DAS	
				Small Fab - 4 - B4B					36	
				Small Fab - 5 - B4B					9-89	
				Small Fab - 6 - B4B						
				Small Fab - 7 - B4B						
190 QC 5	46 pcs	12/12/18	0.00 0.00	QC 5 - 10						
				QC 5 - 12						
				QC 5 - 16						
				QC 5 - 17						
				QC 5 - 18						
				QC 5 - 19						
				QC 5 - 22						

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date : _____	Sequence #: _____	QTY Affected : _____		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

				QC 5 - 24	
				QC 5 - 3	DAS
				QC 5 - 38	38
				QC 5 - 42	9-89
				QC 5 - 43	
				QC 5 - 49	
				QC 5 - 51	
				QC 5 - 58	
				QC 5 - 68	
				QC 5 - 9	
				QC 5 - 50	
				QC 5 - 30	
200 Packaging 3-1 - Stock - B4B	46 pcs	12/12/18	0.00 0.00	Packaging 3 - 1 - B4B	
				Packaging 3 - 2 - B4B	
				Packaging 3 - 3 - B4B	
				Packaging 3 - 4 - B4B	
				Packaging 3 - 5 - B4B	
				Packaging 3 - 6 - B4B	DAS 9-89
				Packaging 3 - 7 - B4B	DEC 21 2018
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	

57006

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date : _____	Sequence #: _____	QTY Affected : _____		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread		FAULT CATEGORY Other/Details: _____			

				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
210 QC 21 - SA	46 pcs	12/12/18	0.00 0.00	QC 21 - SA - 16	

Part Op 100 - 1-Cut as per Dwg D2348

Descriptions: 120 - (QC8- Inspect parts - second check)

150 - Issue P/O 048013 Black Anodize per Dwg D2348 Rev. C

160 - (Receive & Inspect for Damage & Mat'l Certs) Ensure certificate of conformity is attached

170 - (QC5- Inspect part completeness to step on W/O) INSPECT CERTS

180 - (Small Fab) Install Insert as per Dwg D2348

190 - (QC5- Inspect part completeness to step on W/O)

200 - (Identify as per dwg & Stock Location: _____)

210 - (QC21- Final Inspection - Work Order Release)

21
9-30

DEC 21 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M6061T6S.063	6061-T6 .063 Sheet	.9108 sf (.0198 ea)	100-Waterjet - Flow - 1	5018007
D3996-FE-832-EF	Self-Clinching Fastener	184 Ea (4 ea)	180-Small Fab - 2 - B4B	5092711 (35x) 5092421 (149x)

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Waterjet - Flow - 1	M6061T6S.063	1	172	0
180-Small Fab - 2 - B4B	D3996-FE-832-EF	184	284	0

Part Specifications

Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Wear Plate	0.250Inches ± 0.010	0.260 0.240	0,253	
2	Wear Plate	0.648Inches ± 0.010	0.658 0.638	0,650	
3	Wear Plate	0.795Inches ± 0.005	0.800 0.790	0,793	
4	Wear Plate	2.046Inches ± 0.010	2.056 2.036	2,045	
5	Wear Plate	1.295Inches ± 0.010	1.305 1.285	1,299	
6	Wear Plate	0.656Inches + 0.005 - 0.000	0.661 0.656	0,656	Diameter
7	Wear Plate	0.290Inches + 0.003 - 0.000	0.293 0.290	0,290	Diameter
8	Wear Plate	0.250Inches ± 0.010	0.260 0.240	0,252	Diameter
9	Wear Plate	0.250Inches ± 0.010	0.260 0.240	0,251	
10	Wear Plate	0.648Inches ± 0.010	0.658 0.638	0,650	
11	Wear Plate	1.546Inches ± 0.005	1.551 1.541	1,550	

Entered: _____ Date: _____

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE



NCR No. _____

Route update only ☐

Job: _____ Part No. _____		DISPOSITION Rework ☐ Skid-tube ☐ Cross tube ☐	DEPARTMENT/PROCESS Eng (Non-AW) ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐ RB (QSI042)	
Date : _____	Sequence #: _____	 Container No: S136216 Part: D2348 Job No: 187606 Serial No/Batch: S136216 Revision: _____ Inspector: _____ Exp Date: _____ Instructions: Various STC's Date: 12/10/18 Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 CANADA TEL.: 1 613 632-5200 Email: sales@dartaero.com www.dartaerospace.com		Completed By _____
Description Work Order Deviation				and / Supervisor _____
				QA Coordinator _____
Root Cause				
Operator ☐	☐ Pressure/Force	☐ Contamination	☐ Power Loss/Surge	☐ Positioned Wrong
Manufacturing Process ☐	☐ Bending	☐ Misaligned/off center	☐ Folio/Program	☐ Outside Tolerance
Equip/Tooling ☐	☐ Crushing	☐ BOM/Route	☐ Grain Direction	☐ Drawing
Handling/Preservation ☐	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Finish
Material ☐	☐ Crimp/Kink/Ripple/Wave/Twist	☐ Incomplete/Unclear Instructions	☐ Wrong Stock Pulled	☐ Part Lost/Missing
Product Improvement ☐	☐ Marks/Chatter	☐ Drill Holes	☐ Out of Sequence	☐ Misread
Process Improvement ☐	☐ Mislabeled	☐ Fit/Function	☐ Off-set/Set-up	
Human Factors ☐	Other/Details:			



Dart Aerospace Ltd.
1270 Aberdeen St
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K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO042013**

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO042013
PO Date: 12/11/18
Due Date: 12/21/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Tsimiklis, ChrisoulaPhone:

Via: Ground
Pynt Terms: Net 30

Freight Terms:
Special Comments: ** need back by Dec. 18 **: (

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	184991	RBWSI-HT-12AS-M-1	Top -Issue P/O to GROUPE ALTECH; PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant -Material type; 6061 -Certificate of Conformity is required	Firmed	-	12/21/18	10 pcs	0 pcs	10 pcs	\$5.69/pcs	\$56.90
						6X DEC 18 2018					
2	184978	RBW6305G00931-3G-1	Support -Issue P/O to ATG; PO -ANODIZE COLOR CLEAR, PER IAW MIL-A-8625F TYPE 2 CLASS 1, Water sealant -Material type; 6061T6 -Certificate of Conformity is required	Firmed	-	12/21/18	6 pcs	0 pcs	6 pcs	\$5.69/pcs	\$34.14
						6X DEC 18 2018					



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PURCHASE ORDER **PO042013**

Items											
Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3	184524	D5573-1	Base Bracket, Upper, Cable Cutter, LH : Various STC's Issue P/O to ATG: ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 2 CLASS 2 PRIME AS PER IAW MIL-PRF-23377 1-2 MIL MAX AS PER DWG NOTE 2 C OF C IS REQUIRED	Firmed	-	12/21/18	4 pcs	0 pcs	4 pcs	\$10.33/pcs	\$41.32
4	184525	D5573-2	Base Bracket, Upper, Cable Cutter, RH : Various STC's Issue P/O to ATG: ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 2 CLASS 2 PRIME AS PER IAW MIL-PRF-23377 1-2 MIL MAX AS PER DWG NOTE 2 C OF C IS REQUIRED	Firmed	-	12/21/18	4 pcs	0 pcs	4 pcs	\$10.33/pcs	\$41.32
5	185594	D5577-1	U-Channel, Cable Cutter : Various STC's Issue P/O to ATG : 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5577 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	-	12/21/18	8 pcs	0 pcs	8 pcs	\$12.23/pcs	\$97.84



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PURCHASE ORDER **PO042013**

Items											
Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6	186660	RB H4749-1	Drain Hose Body -Issue P/O to Groupe Altech: PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant -Certificate of Conformity is required	Firmed	-	12/21/18	10 pcs	0 pcs	10 pcs	\$5.69/pcs	\$56.90
						9 X DEC 18 2018					
7	187606	D2348	Wearplate (Key Way) : Various STC's Issue P/O: Black Anodize per Dwg D2348 Rev. C	Firmed	-	12/21/18	46 pcs	0 pcs	46 pcs	\$2.48/pcs	\$114.08
						46 X DEC 18 2018					DAS 38 9-89
8	187428	D3299-5	Fitting : Various STC's (Outsource process- Anodize per QSI017 4.1.10.1), Issue P/O: Anodize as per Dwg D3299 Possible Supplier: TNM Paint Material release note is required	Firmed	-	12/21/18	10 pcs	0 pcs	10 pcs	\$5.69/pcs	\$56.90
						10 X DEC 18 2018					
Grand Total:										\$499.40	

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 12/17/18 8:04 AM dart.tsimiklis.chrisoula



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 916829

Date: 17-Dec-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chrisoula Tsimiklis
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		ATG Delivery	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
✓ 46 ea	Part: D2348 Wearplate (Key Way) Anodize per MIL-A-8625F, Type II, Class 2, Black, .0004-.0010" (.4 - 1 mils). Job: 24344 PO: PO042013	Rev: C Line: 7	DA 38 9-8
✓ 10 ea	Part: D3299-5 Fitting Anodize per MIL-A-8625F, Type II, Class 2, Blue, .0004-.0010" (.4 - 1 mils). Job: 24345 PO: PO042013	Rev: C Line: 8	
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>17/12/2018</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			

Made in Canada.

